GPS/GLONASS/QZSS/BeiDou Receiver

User's Manual

Pure White

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Caution

Read before you start to use:

- Global position system (GPS) & The Global Navigation Satellite System (GLONASS) & Quasi-Zenith Satellite System (QZSS) & BeiDou Navigation Satellite System (BeiDou) is obtained by American Ministry of National Defense, and they got the full responsibility about the preciseness and the maintenance. Any changes may cause the capacity and preciseness of GPS/GLONASS/QZSS/BeiDou differed.

- If you use this device inside of buildings, tunnels, or any huge objects beside you, the GPS/GLONASS/QZSS/BeiDou signals might be cut-off or disturbed. Please do not consider that the receiver is malfunction.

- The receiver operating temperature is located between – 20°C and + 60°C.

1. Introduction

- The GPS/GLONASS/QZSS/BeiDou USB Dongle Receiver is a total solution of dual GPS/GLONASS/QZSS/BeiDou receiver , all-in-view tracking technology.
- This GPS/GLONASS/QZSS/BeiDou USB Dongle Receiver can communicate with other electronic devices by USB interface.
- The GPS/GLONASS/QZSS/BeiDou USB Dongle Receiver is designed as an ultra low power consumption device, and high position accuracy. It will update the satellite position every second. This GPS/GLONASS/QZSS/BeiDou USB Dongle Receiver auto-locating feature is capable of automatically determining a navigation solution without intervention. However, acquisition performance could be interfered and do cold start if the receiver were initialized with occurrence of the following events:

1) First in use

2) The GPS receiver is not in use for more than 3 months or transportation over distances further than 500 kilometers.

2. Features and Functions

1) Signal detection better than -167dBm
2) Cold start < 30 seconds at –147dBm
3) Hot start < 1sec. under open sky.
4) 2.5m CEP accuracy.
5) Signal reacquisition 1 sec.
6) Acquire and track 72 satellites simultaneously
7) USB Version 1.1/2.0, 4dBm output level Up to 10m of operation

Check the Package Content

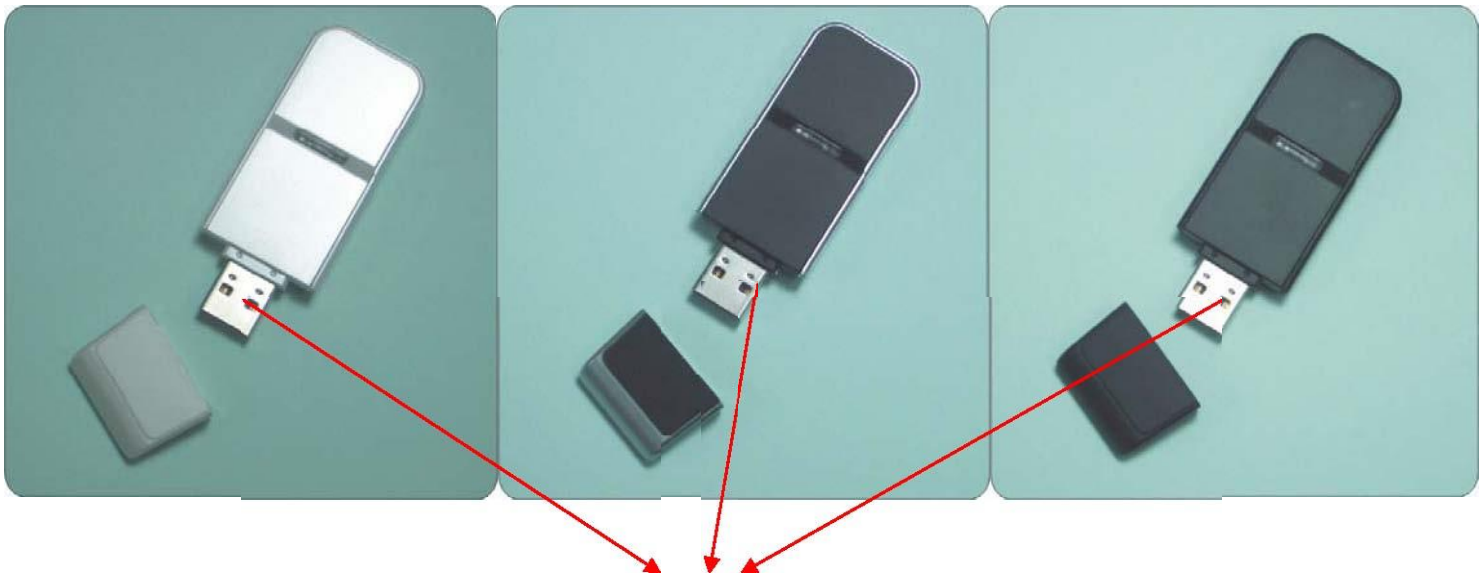
Before you start using, please check out if your package includes the following items. If any item is damaged or missed, please contact your reseller at once.

- GPS/GLONASS/QZSS/BeiDou USB Dongle receiver X 1
- USB Adapter X 1 (Option)
- CD manual & driver X1

BASIC OPERATIONS

How to install for Laptop/UMPC

GPS/GLONASS/QZSS/BeiDou USB Dongle



USB Connector

1) Plug **USB connector(1)** into Notebook USB port, see Fig 1.1

Fig 1.1

2) Install USB driver, users can find the USB driver on the attached DVD (file name: **USB Driver**), the USB driver can be installed for Microsoft Windows 8, 7, XP, Vistar, Windows CE,Linux . User can easily install USB driver, the USB driver can automatically install the driver when user execute it.

3) Turn on Laptop/UMPC, please identify which COM port has been used (occupied) by USB GPS Dongle. The ways how to check COM port has been used by **GPS/GLONASS/QZSS/BeiDou USB Dongle** are as following ; Double clicks **"Control panel (C)"** Double clicks **"System"** Click **"hardware"**Click **"Hardware Manager"** Double clicks **"COM Port",** then user can find which COM port has been occupied by **GPS/GLONASS/QZSS/BeiDou USB Dongle.**

4) Load your GPS mapping or routing software, along with the corresponding maps of the areas that you are occupying or plan to travel. Start the application. Make sure the application is set for the COM port that your Laptop/UMPC device will use for serial communication. Now you should be ready to use your GPS/GLONASS/QZSS/BeiDou application as directed by the user documentation that came with the software. More configurations may be necessary.

5) eMap will search GPS/GLONASS/QZSS/BeiDou satellites automatically, users' current position will be showed in the eMap after 3 satellites has been

searched.(In firstly use of this GPS/GLONASS/QZSS/BeiDou USB Dongle, we strongly recommend you to bring your GPS/GLONASS/QZSS/BeiDou USB Dongle receiver **outdoor or**

open sky at least 15~20 minutes for sure 3D position fixed and almanac updated.). **See Fig 1.2**

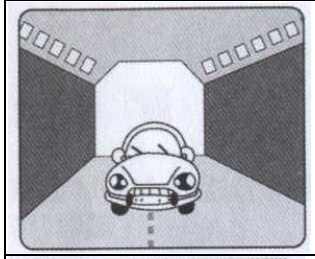
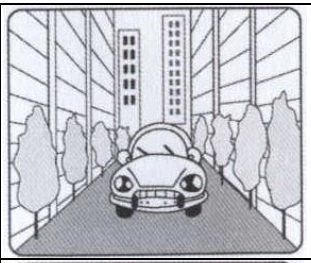
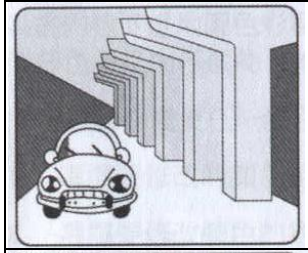
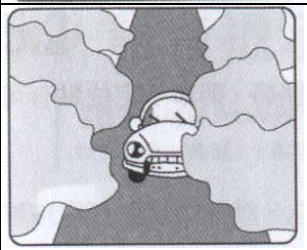
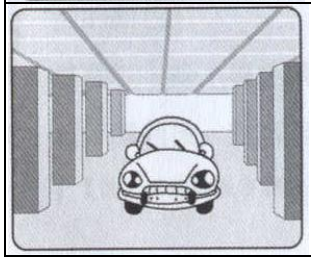
Fig 1.2

6) How to identify **GPS/GLONASS/QZSS/BeiDou USB Dongle** working status, please read the following description LED Indicator.

1	LED OFF	Receiver switching Off
2	LED Flashing	Flashing 1sec. ON / 1sec. Off , Position is fixed
3	LED ON	Signal searching

Concerning of Poor GPS/GLONASS/QZSS/BeiDou Signal

It is possible unable to receive GPS/GLONASS/QZSS/BeiDou signal or signal low in these places:

	➢ Inside the tunnel, GPS/GLONASS/QZSS/BeiDou signal is blocked.		➢ Beside some buildings, GPS/GLONASS/QZSS/BeiDou signal is low or disturbed.
	➢ Covers above, GPS/GLONASS/QZSS/BeiDou signal are blocked.		➢ Inside forests, or too many covers, GPS/GLONASS/QZSS/BeiDou signal is low or disturbed.
	➢ Inside buildings, GPS/GLONASS/QZSS/BeiDou signal is blocked.		

- If you use the GPS/GLONASS/QZSS/BeiDou Receiver inside the car, some anti-sunlight windscreen film will make the GPS/GLONASS/QZSS/BeiDou signal degraded or signal blank.
- GPS/GLONASS/QZSS/BeiDou satellite is owned by America military; sometimes they will tune-down the accuracy by some reason. In such cases, the GPS/GLONASS/QZSS/BeiDou position may not fixed exactly.

★Note:

Directly pluging **GPS/GLONASS/QZSS/BeiDou USB Dongle** into the USB port may degrade GPS/GLONASS/QZSS/BeiDou performance due to RF interference from notebook or UMPC. Please add the USB extended adapter, and will be better performance. **See Fig 1.3**

Fig 1.3

Used equipment must be disposed of in compliance with current environmental protection regulations. You should return it to your reseller or dispose of it in an approved recycling centre.